

ABSTRACT

An engineering model is described for a home gateway and interface system and method for providing quality of service to a home LAN device on a home network that is not QoS capable. The gateway comprises a modem (e.g., cable, DSL modem) and a portal service proxy interface. The modem is connected between the home network and a WAN cable network, and is operable to bridge traffic between the home LAN of the home network and the WAN cable network. The portal service interface is connected to the modem and is utilized as a proxy for QoS reservations and data communications between the home LAN devices on the home network. The portal interface acts on behalf of a client to make requests of the non-QoS capable home LAN devices and communicate these QoS needs to the QoS capable devices. The portal service interface is operable to manually input and obtain a set of QoS requirements of a client or user, for example, using a protocol such as the HTTP or Telnet protocol on a web browser. The QoS requirements are then utilized in the gateway and communicated to the home LANs thru the modem for selectively transmitting or receiving the data between the devices, based on the QoS needs of each home LAN device obtained from the client.